A System and Method to Exchange Information Between a Control
Element and Forwarding Elements in a Network Element Architecture
Hormuzd M. Khosravi
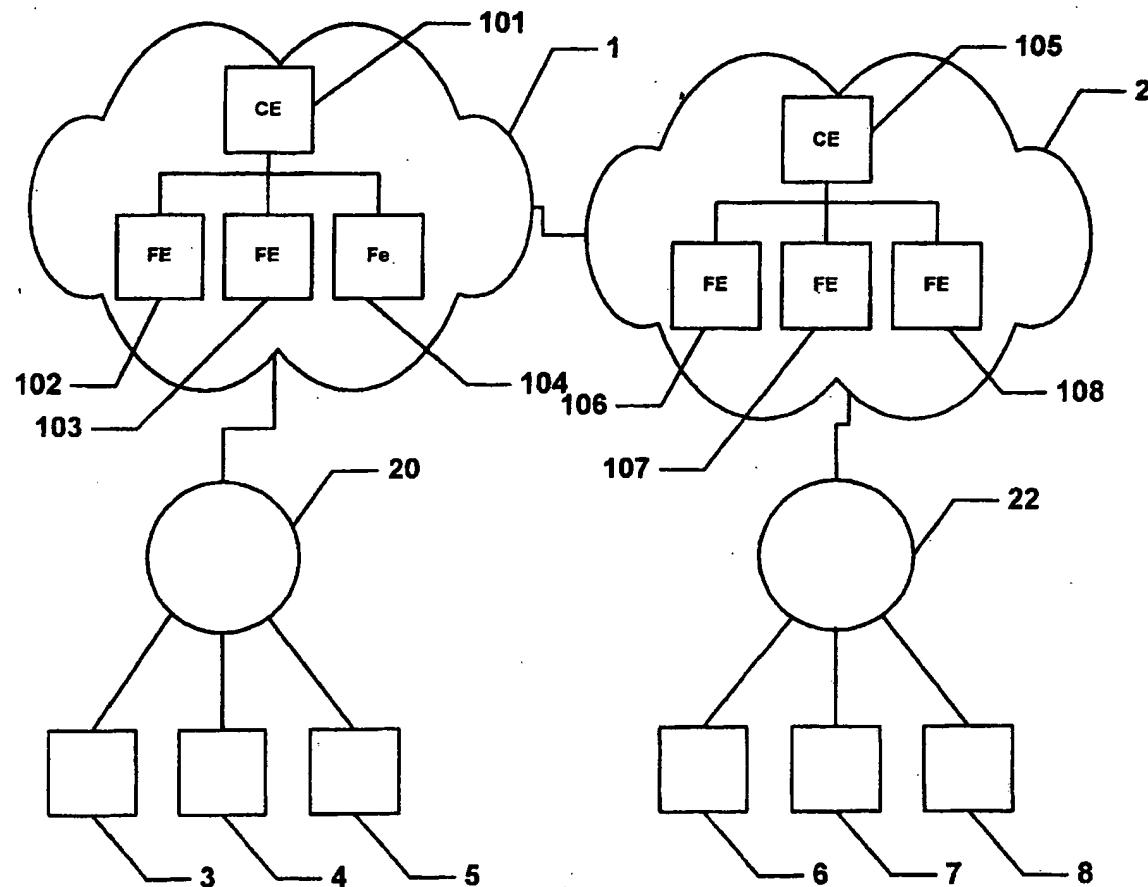INTEL-022PUS

1/5

Figure 1

A SYSTEM AND METHOD TO EXCHANGE INFORMATION BETWEEN A CONTROL
ELEMENT AND FORWARDING ELEMENTS IN A NETWORK ELEMENT ARCHITECTURE
Hormuzd M. Khosravi
INTEL-022PUS

2/5

10

100

Control
Element

140
142
144
146
30

Transport Plugin

110a
110b

Forwarding
Element

Forwarding
Element

Figure 2

A SYSTEM AND METHOD TO EXCHANGE INFORMATION BETWEEN A CONTROL
ELEMENT AND FORWARDING ELEMENTS IN A NETWORK ELEMENT ARCHITECTURE
Hormuzd M. Khosravi
INTEL-022PUS

3/5

Figure 3

A System and Method to Exchange Information Between a Control
Element and Forwarding Elements in a Network Element Architecture
Hormuzd M. Khosravi
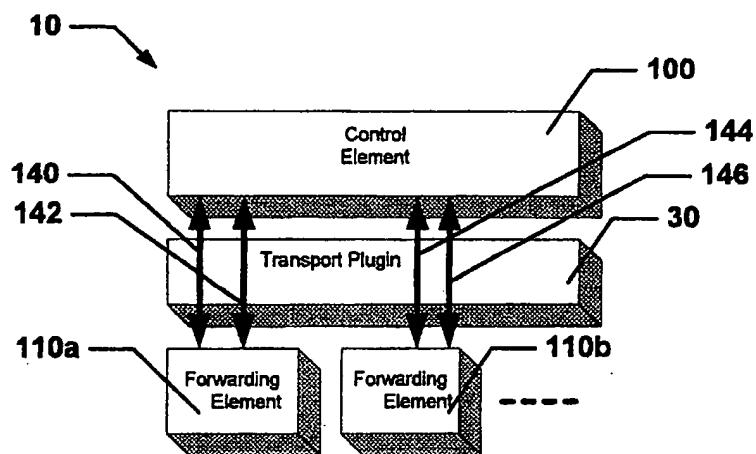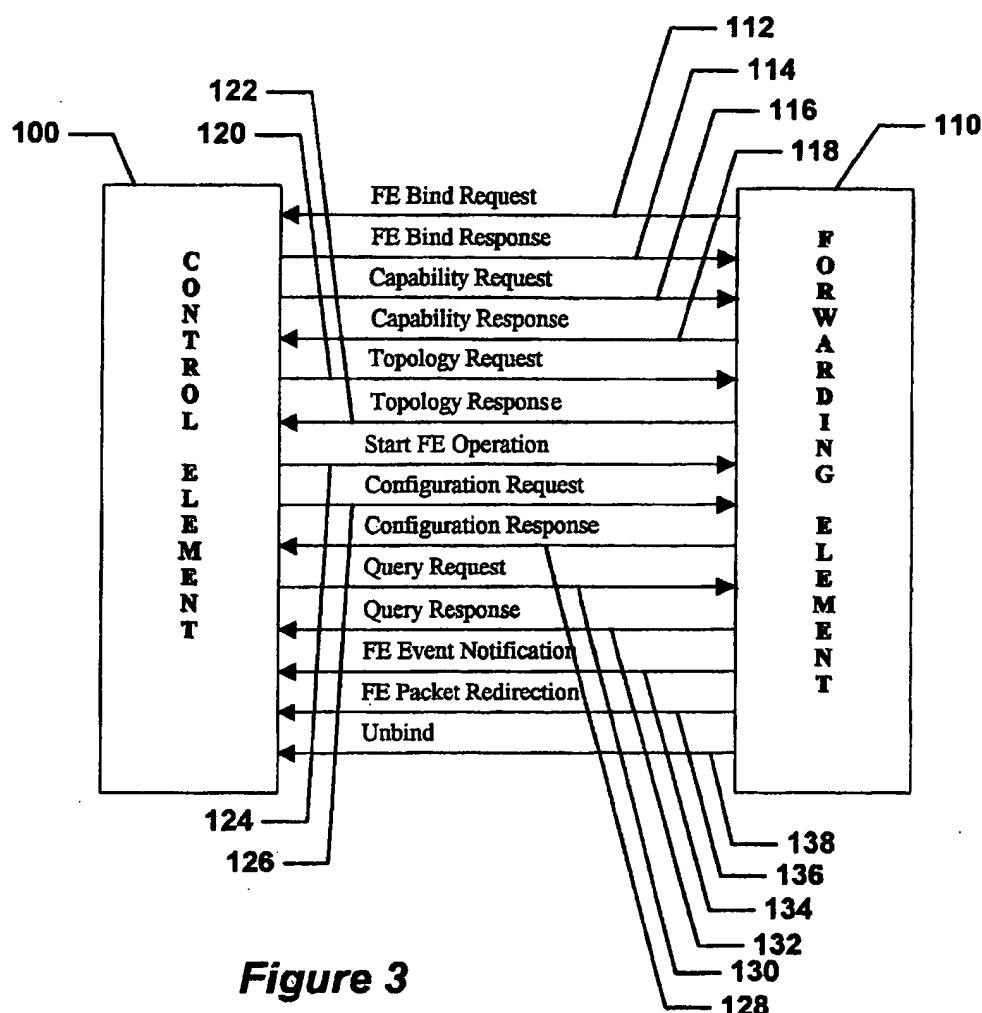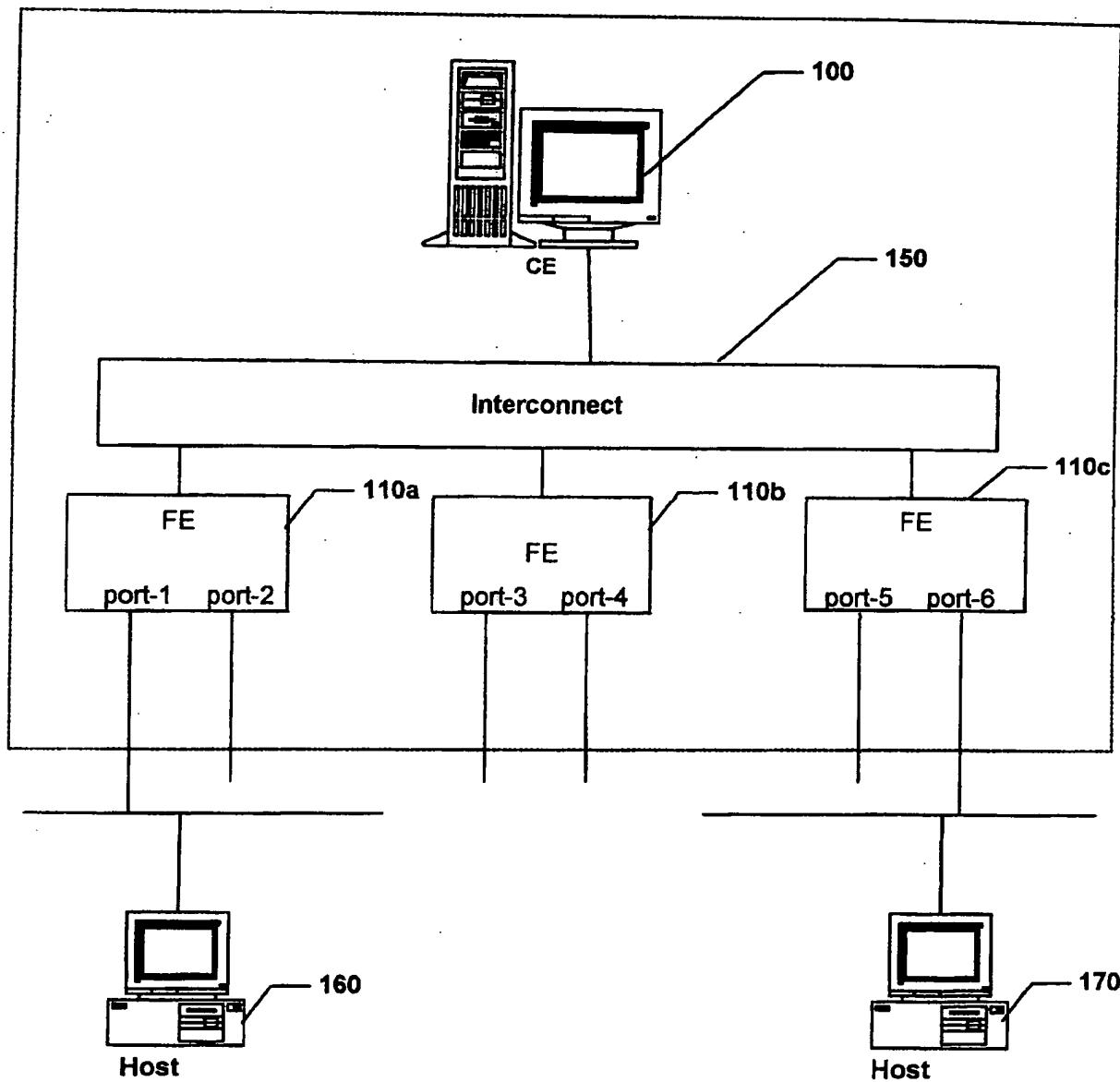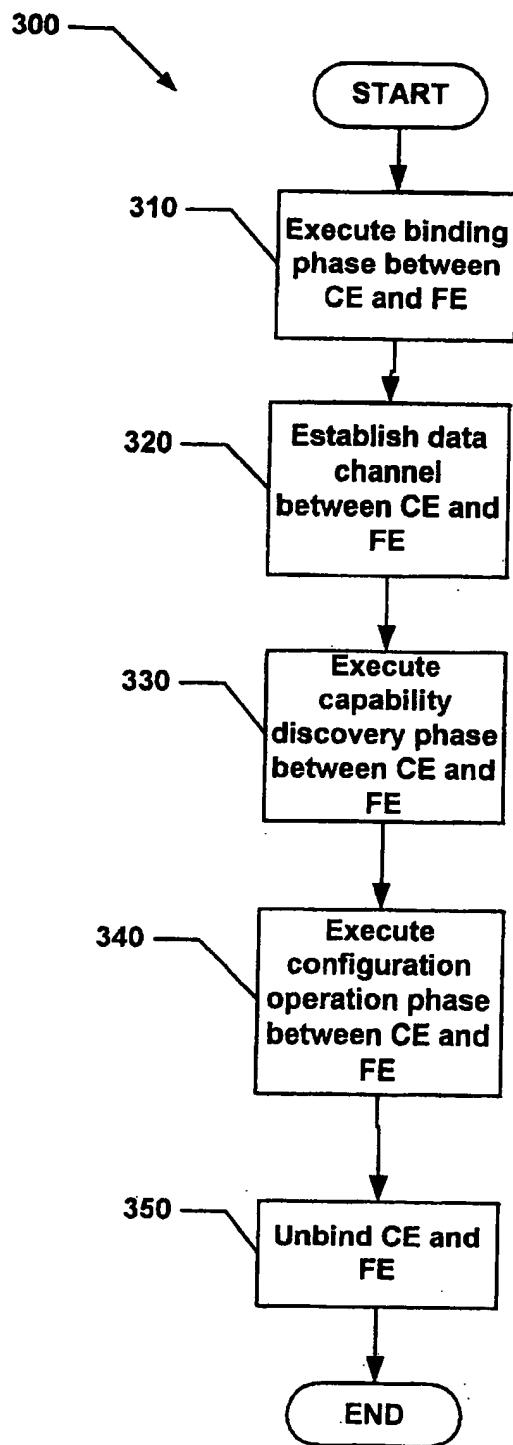INTEL-022PUS

4/5

200

100

CE

150

Interconnect

110a

110b

110c

FE
port-1   port-2

FE
port-3   port-4

FE
port-5   port-6

160

Host

170

Host

Figure 4

5/5

300 —

```
        ┌──────────────┐
        │    START     │
        └──────┬───────┘
               │
               ▼
310 ─   ┌──────────────┐
        │Execute binding│
        │phase between │
        │  CE and FE   │
        └──────┬───────┘
               │
               ▼
320 ─   ┌──────────────┐
        │Establish data│
        │   channel    │
        │between CE and │
        │     FE       │
        └──────┬───────┘
               │
               ▼
330 ─   ┌──────────────┐
        │   Execute    │
        │  capability  │
        │discovery phase│
        │between CE and │
        │     FE       │
        └──────┬───────┘
               │
               ▼
340 ─   ┌──────────────┐
        │   Execute    │
        │configuration │
        │operation phase│
        │between CE and │
        │     FE       │
        └──────┬───────┘
               │
               ▼
350 ─   ┌──────────────┐
        │ Unbind CE and│
        │     FE       │
        └──────┬───────┘
               │
               ▼
        ┌──────────────┐
        │     END      │
        └──────────────┘
```

FIGURE 5